

Wednesday 15 May 2019 – Morning

AS Level Mathematics B (MEI)

H630/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 1 hour 30 minutes

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• Question Paper H630/01 (inserted)

You may use:

· a scientific or graphical calculator



Please write clea	arly in blacl	k ink. Do n	ot writ	te in the barcodes.		
Centre number				Candidate number		
First name(s)						
Last name						

INSTRUCTIONS

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- · Answer all the questions.
- Write your answer to each question in the space provided in the Printed Answer Booklet. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- The acceleration due to gravity is denoted by $g \, \mathrm{m} \, \mathrm{s}^{-2}$. Unless otherwise instructed, when a numerical value is needed, use g = 9.8.

INFORMATION

- You are advised that an answer may receive no marks unless you show sufficient detail
 of the working to indicate that a correct method is used. You should communicate your
 method with correct reasoning.
- The Printed Answer Booklet consists of 12 pages. The Question Paper consists of 8 pages.

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3	
4(a)	
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4(b)	
5(a)	
5(b)	

6 (a)	
	Truck B Truck A Engine
	25 000g
	Force diagram
6 (b)	
6(c)	

7(a)	
7(b)	

7(c)	
8	
	(answer space continued on next page)

(continued)		

9 (a)	
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9 (b)	
9 (c)	

10 (a)	
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10(b)	

11 (a)	
11 (b)(3)	
11 (b)(i)	
11 (b)(ii)	

11 (c)	
11 (d)	
11 (u)	
11 (e)	

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